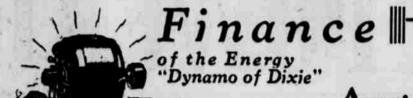
The Chattanooga News

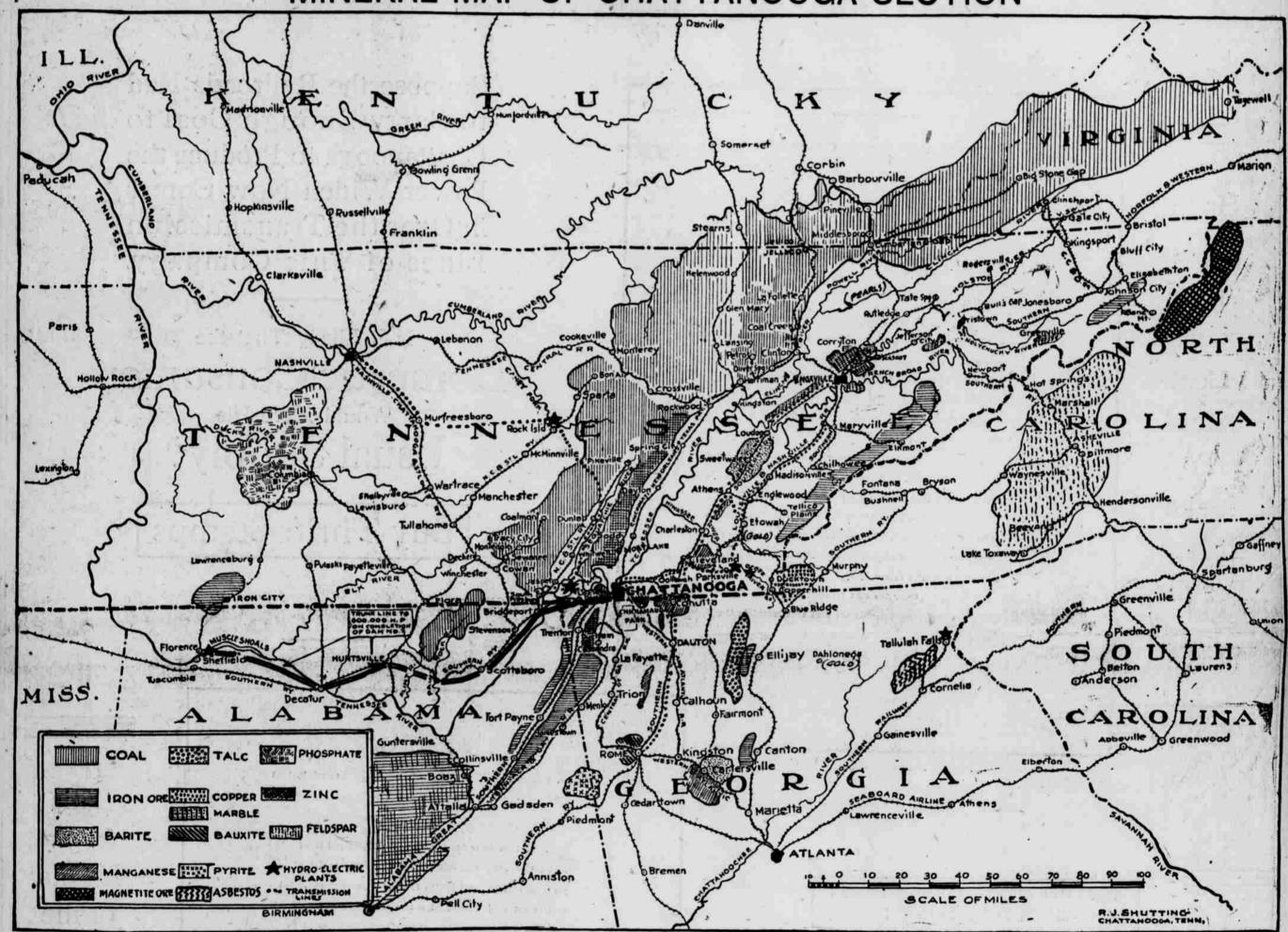
MANUFACTURING

Commerce Being a Measure Generated By the



August Thirty-first, 1918

MINERAL MAP OF CHATTANOOGA SECTION



Showing how natural routes of assemblage from large deposits of coal, iron, barite, bauxite, manganese, etc., center at Chattanooga, where also converge the power lines from the big hydroelectric plants in the Appalachian mountains.

CHATTANOOGA IN THE MIDST OF REMARKABLE MINERAL DEPOSITS

Fresentation of Factors Which Have Produced Great Iron Industry
in Chattanooga and List of Minerals Assuming New Importance in Light of Latest Metallurgical Developments and War Need.

Chattanooga and List of Minerals Assuming New Importance in Light of Latest Metallurgical Developments and War Need.

Chattanooga offer to manufacturer; lime of manufacturer which have since
an unsurpressed location with receive spread location with receiver spread locatio

Sulphate of Am., pounds 22 is an approximation.

Gas, cubic feet 10,300
Surplus gas, cubic feet 5,300
Same authority as above.
For comparison, Pittsburgh coal will yield:
Coke, per cent. 72.52
Coke, per cent. 72.52

Coke because of Am., pounds 22 is an approximation.
The average analysis as shipped is: from 47 per cent., incoluble 17 per cent. 2-per cent., phosphorus .2 per cent. 2-per cent. 9.

Clinton Ore.

inches thick, containing, it is estimated, 1,900,000,000 tons of recoverable ore. This ore, at the south end of the ridge, on the west side in Sequatchie Valley, has 27,93 per cent. iron; 7.07 per cent. insoluble; 18.11 quick lime.

At the north end, at Rockwood, where it has been profitably mined for fifty years, it averages 42 inches thick; iron 38 per cent.; silica and alumina 13.46 per cent.; manganese 15 per cent. 92 per cent. phosphorus 0.416 per cent. o 0.736 per cent. sulphur 0.02 per cent. to 0.736 per cent. sulphur 0.02 per cent. to 0.736 per cent. Which a large into aluminum, but much of it is used two years; felspars, both soda and manufacture of alum. Bauxite exists here in association with the Fort Payne chert and the Knox Dolomite. It is mined in Mission Ridge just east of Chattanooga, and is found in the continuation of the ridge, both north and south, and is usually found in chimney formation known as pockets. Tennessee and Alabama produce 10 per cent. of the bauxite produced in the United States.

It is used industry has been founded in the last two years; felspars, both soda and and variety except clay to make high other industry has been founded in the very example. United States.

Limestone For Cement Making.

Of course in the mountains around Chattanooga limestone is about the commonest thing encountered. There is also much good shale, and in a number of places these two are encountered in proportions and analyses suitable for cement manufacture, At Richard City, Tenn., some twenty-odd miles across country from Chattanooga is located the largest cement mill, that of the Dixie Portland Cement com-pany, in the south, and one of the very largest in the whole country. This mill has a daily output of between 4,000 and 5,000 barrels per day, and obtains its raw material from a huge mountain of limestone and shale just back

Other Minerals In This Section. Barytes, or barite, is found almost exclusively in the south. It has been mined in Virginia for more than 100 years and is about exhausted there. The largest deposits are in East Tennessee south and north of Sweetwater and near Cartersville, Ga.

East Tennessee and Georgia pro-duced about 50,000 tons in 1917.

In East Tennessee on the Carolina border are located two large copper companies which produce copper from pyrite and recover, as a by-product, the sulphur fumes from which is made sul-The Cartersville area is fifteen miles by five miles, and contains a great deal of ore yet to be mined, and is on the waters of the Etowah river. The East Tennesse ore lies in a zone which traverses the entire castern end of the state. New deposits of this ore are continually being discovered and some of it of a very high grade.

Plenty of Good Bauxite.

Bauxite, the ore of aluminus, is a mineral which has come into increasing demand both for the arts of war wide as 90 feet, and will yield immense and for the ends of peace, and Chatta-

croppings on both sides of Waldens nooga lies in a section where there is deposits not altered to brown iron ore. Ridge, is a sheet of Clinton ore 35 much of this ore. Some of it is shipped inches thick, containing, it is estimated, to the electrolitic plant for conversion district are: graphite, of which a large

(Reprinted from The Lookout.)
From the workmen at U. S. N. P. No.
2. Muscle Shoals, Ala., to their fellow soldlers in France and Flanders with Gen. Pershing, May 25, 1918.

soldiers in France and Flanders with Gen. Pershing, May 25, 1918.

You hold 'em, buddy boy! We're with you heart and hand in this yere scrap to save the world and freedom in our land.

We know just what you're up against, 'way out there in France, But hold 'em, hold 'em, buddy boy, till you git your final chance.

We've all chipped in our bit of cash this glorious Red Cross day
To help you git what's yours by right if you're hurt while you're away.

We're hustlin' here both day and night, an' Sundays, too, you bet.

To git this plant a-goin'—an' we'll do it, don't you fret!

The hammer's rattlin' on the steel as the rivets are headed tight

Is our machine-gun volley in defense of human right.

Each anil we drive, each concrete mix an' all

The rest of what we do is our answer to the call.

We're comin' strong, you buddy boy, wa're comin' right as well;

We're fixin' here to send you stuff to give the Germans hell!

It won't be long now, buddy boy, till you will hear from us;

We're workin' quiet-like an' calm, with mighty little fuss.

But hold 'em, buddy, hold 'em, till our work nere is done.

An' you'll git a chance to do right smart agin the beastly Hun.

For what this plant will send across to the Flanders battle line

Is what you need to finish up the dirty German swine.

"Ammonium Nitrate" is it's name—an' it's exactly what you need to put the kaiser on the bum.

So hold' em, buddy boy! We're with you heart an' hand

In this yere scrap to save the world and freedom in our land!

Capit. Stephen L. Coles. Ordnance Reserve Corps, Inspector of Construction, U. S. N. P. No. 2.